

**37 CFR §1.121(b)(1)(iii) and (c)(1)(ii) SPECIFICATION
AND CLAIM AMENDMENTS- MARKED UP VERSION**

2. (Amended) An apparatus for measuring an object on a conveyor having a width, the apparatus comprising:

a chassis;

a mirrored wheel rotatably located on the chassis;

a light source positioned on the chassis and oriented to transmit a light beam in a fixed direction onto the mirrored wheel, wherein when the wheel rotates the light beam is reflected while also being sequentially redirected at one of a plurality of varying angles resulting in the motion of the light beam, which is reflected from the mirrored wheel, defining a path oriented generally perpendicularly to the light beam;

a reflecting surface located on the chassis and oriented to receive the light beam that is reflected off of the mirrored wheel and to redirect the light beam toward the conveyor such that the path defined by the light beam extends generally across the width of the conveyor, wherein the light beam, when not obstructed by the object, impacts the conveyor at an angle relative to a perpendicular extending therefrom;

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a detector disposed on the chassis and having a field of view initially oriented toward the mirrored wheel, wherein the field of view is redirected via the mirrored wheel and the reflecting surface to allow the detector to detect a reflection of the light beam off of one of the conveyor and the object at a plurality of locations as the light beam moves along the path across the conveyor.

16. A method of measuring an object on a conveyor, comprising:
 - emitting a single light beam in a fixed direction;
 - sequentially reflecting the light beam through a plurality of varying angles causing the motion of the reflected light beam to define a path generally perpendicular to the light beam, wherein the path extends generally across a width of the conveyor, wherein the light beam, when not obstructed by the object, impacts the conveyor at an angle relative to a perpendicular extending therefrom;
 - detecting the reflection of the reflected light beam off of one of the object and the conveyor at a plurality of locations along the path; and
 - determining a height profile, relative to the conveyor, along the path.

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18. A method for determining the dimensions of one or more objects on a conveyor, comprising the steps of:

directing at least one light beam onto the conveyor at a plurality of locations along the path;

detecting reflections caused by the at least one light beam striking one of the conveyor and the object, wherein the light beam, when not obstructed by the object, impacts the conveyor at an angle relative to a perpendicular therefrom;

collecting time and location data associated with the detected reflections; and

generating a height-profile, relative to a conveyor surface, along the path.